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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/801,855	03/17/2004	Cheol Jin Kim	1594.1355	19.71	
21171 75	90 02/04/2005		EXAMINER		
STAAS & HALSEY LLP			WALBERG,	WALBERG, TERESA J	
SUITE 700 1201 NEW YO	RK AVENUE, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005			3742		
			DATE MAIL ED: 02/04/2009	DATE MAILED: 02/04/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/801,855	KIM, CHEOL JIN			
		Examiner	Art Unit			
		Teresa J. Walberg	3742			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
THE - Exterent after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[Responsive to communication(s) filed on					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)[5) Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) 1-24 is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	on Papers	·				
9)[The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>17 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∋ 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority (ınder 35 U.S.C. § 119					
12)🛛	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).			
•	☑ All b)☐ Some * c)☐ None of:		., .,			
1.⊠ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents		on No			
	3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage			
	application from the International Bureau	ı (PCT Rule 17.2(a)).				
* 5	See the attached detailed Office action for a list	of the certified copies not receive	d.			
Attachmen	tic)					
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/17/04. 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 18 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Dean (2,696,775).

Dean discloses the claimed structure including (see Fig. 3) a cooking cavity (40) to cook food (col. 3, lines 56-57), a heating unit (41) to heat the food, a vacuum unit (53) to create a vacuum state in the cooking cavity (40) and a control unit (the manual valve actuator on steam inlet 45 and the manual valve actuator 47 for the vacuum) to perform a cooking mode by controlling the heating and perform a cool storage mode by controlling the vacuum unit, the vacuum unit being a vacuum pump (53) to discharge air from the cooking cavity (40).

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 3-6, 11, 12, 14-20, and 22 rejected under 35 U.S.C. 103(a) as being unpatentable over Filipowski (4,884,626) in view of Dean (2,696,775).

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Filipowski discloses a food chamber and method of use including holding the food at a predetermined cold storage temperature for a predetermined time then performing a cooking mode by heating the food in the same chamber.

With respect to claim 3 and 12, a thawing mode is taught at col. 5, line 55.

With respect to claim 5, microwave heating is taught at col. 4, line 39.

With respect to claim 6 and 11, the cold storage mode is re-activated if food is determined to be present in the cooking cavity after a predetermined period has elapsed after the cooking mode. See col. 8, lines 41-68.

With respect to claim 14, a warming mode is taught at col. 8, lines 41-49.

Filipowski does not disclose that the cooling of the food is performed by vacuum.

Dean teaches the use of applying vacuum to cool food in a cooking chamber and teaches that vacuum cooling cools more rapidly than other forms of refrigeration and thus prevents spoilage.

It would have been obvious in view of Dean to use vacuum cooling of the food in the heating and cooling chamber of Filipowski, the motivation being to cool the food more rapidly and thus prevent spoilage.

5. Claims 2, 7, 13, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Filipowski (4,884,626) in view of Dean (2,696,775) as applied to claims 1, 3-6, 11, 12, 14-20, and 22 above and further in view of Bradshaw (2,696,775).

Filipowski in view of Dean disclose the claimed structure and method with the exception of the vacuum level being adjusted to control the temperature during cold storage mode.

Bradshaw teaches controlling the cooling temperature by adjusting the vacuum level. See col. 2, lines 58-65.

It would have been obvious in view of Bradshaw to control the cooling temperature by adjusting the vacuum level in the heating and cooling chamber of Filipowski in view of Dean, the motivation being to maintain the food at a suitable temperature and prevent damage to the food.

6. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Filipowski (4,884,626) in view of Dean (2,696,775) as applied to claims 1, 3-6, 11, 12, 14-20, and 22 above and further in view of Fukada et al (3,470,942).

Filipowski in view of Dean disclose the claimed structure and method with the exception of the thawing mode including applying microwave heating while cooling the food.

Fukada et al teaches thawing food by applying microwaves while cooling. See abstract. Fukada et al further teaches that thawing by microwaves without cooling causes surface damage to the food (col. 1, lines 36-47).

It would have been obvious in view of Fukada et al to thawing food by applying microwaves while cooling the food in the heating and cooling chamber

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of Filipowski in view of Dean, the motivation being to prevent damage to the food by overheating the surface of the food.

7. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Filipowski (4,884,626) in view of Dean (2,696,775) as applied to claims 1, 3-6, 11, 12, 14-20, and 22 above and further in view of Bellassai et al (2003/0213792).

Filipowski in view of Dean disclose the claimed structure and method with the exception of a moisture supply container.

Bellassai et al teach providing a moisture supply container (30) for a cooking chamber to enable steaming of food. See paragraphs 0022 and 0023.

It would have been obvious in view of Bellassai et al to provide a moisture supply container for the heating and cooling chamber of Filipowski in view of Dean, the motivation being to enable steaming of the food during the cooking cycle.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mueller et al, White, Bunker, Mansbery et al, Barritt, Clark et al, Goodman et al, and Trombley et al are cited to show chambers for heating and cooling.

Itou is cited to show a vacuum cooling apparatus.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teresa J. Walberg whose telephone number is 571-272-4790. The examiner can normally be reached on M-F 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joresa J. Wallerg Teresa J. Walberg Primary Examiner

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